BATTERY DISCHARGE VALUE MEASUREMENT DEVICE

Patent number:	JP2000014019
Publication date:	2000-01-14
Inventor:	TSUJI TADASHI
Applicant:	NISSAN MOTOR
Classification:	
- international:	H02J7/00; B60L3/00; G01R31/36
- european:	
Application number:	JP19980174821 19980622
Priority number(s):	JP19980174821 19980622

Abstract of **JP2000014019**

PROBLEM TO BE SOLVED: To correct a detection error. SOLUTION: An output power P1 and a discharge watthour Wh1 are detected. Further, a temperature and an internal resistance deterioration factor &gamma 1 at that time are also detected. A corresponding temperature deterioration factor &alpha 1 is obtained by a temperature table. By using the output power P1, P1/(&alpha 1.&gamma 1) is calculated to correct the internal resistance deterioration and the temperature deterioration into initial states and the estimated value of a discharge watthour Wh (P1/(&alpha 1.&gamma 1)) is obtained in accordance with initial characteristics C. The obtained value is a discharge watthour before the capacitance deterioration and, if the value is multiplied by a capacitance deterioration factor &beta , an actual discharge watthour shown by characteristics D is obtained. The correction formula and a correction formula obtained by adding a detection error correction value &Delta Wh to the detection value Wh1 are made to be equal to each other to obtain a 1st calculation formula. When the discharge is progressed in a predetermined manner, 2nd and 3rd calculation formulae are obtained. By satisfying the formulae simultaneously, the detection error correction value &Delta Wh and the capacitance deterioration factor &beta can be obtained. By correcting the detection value of the discharge watthour with the detection error correction value &Delta Wh, the actual discharge watthour detection value can be obtained.